1 **THERMAL RELEASER OR ACTUATOR**
2 .Nonfusible
3 .Common fuse releases closures for plural openings
4 .Pull cable with fusible connection
5 .Terminates counterweight condition
6 ..Overbalanced by released weight supplementing counterweight
7 .Fusible closure latch or retainer
8 ..Fusible connector disengages pawl or catch
9 **IMPACT ABSORBING FLEXIBLE BARRICADE**
10 **FLOOD ACTUATED**
11 .Float or vane controlled latch release
12 .Axially pivoted picket pole
13 **CLOSURE CONDITION SIGNAL OR INDICATOR**
14 .Indicator at remote station
15 **JAIL-TYPE CLOSURE WITH REMOTE CONTROL STATION**
16 .Additional key or combination control of individual closure
17 .Enclosure for remote control
18 .Motor operated control
19 .Rotary gang bar
20 .Ganged closures with selector means
21 **RESPONSIVE TO OR DIRECTLY ACTUATED BY AMBIENT FLUID**
22 .Fluid softenable or soluble latch release
23 .Water accumulator-type
24 **WITH MASTER CONTROL FOR INDIVIDUALLY CONTROLLED CLOSURES**
25 **RADIANT ENERGY CONTROL**
26 **SAFETY MEANS RESPONSIVE TO OBSTRUCTION TO CLOSURE**
27 .Sensing shoe on leading edge
28 .Closure drive stopping or reversal
29 **TIME CONTROLLED**
30 .Predetermined delay governs start of closure movement
31 **CONDITION RESPONSIVE CONTROL**
32 **INITIAL MANUAL DISPLACEMENT ENERGIZES MOTOR DRIVE; E.G., TOUCH PLATE INITIATOR**
33 **CLOSURE SHIFTABLE TO PIT OR OBSTACLE BRIDGING POSITION**
34 **DISTORTABLE; E.G., FLEXIBLE STRAND-TYPE BARRICADE**
35 **CHECK OR KEY CONTROLLED**
36 **CONTINUOUS CLOSURE OPENING IN INTERSECTING BARRIERS**
37 **CONVERTIBLE**
38 **REGISTERABLE OPENING IN FACIALLY OPPOSED CLOSURE AND BARRIER**
39 .Radially positioned
40 **CONVEX OR CONCAVE CLOSURE AND OPENING**
41 **ARCUATE CLOSURE ROTATES ACROSS ARCUATE OPENING**
42 **PLURAL WINGS RADIATE FROM COMMON PIVOT; I.E., REVOLVING**
43 .With speed regulator
44 .Wings fold for through passage
45 ..Move laterally of opening
46 .Successive position-type; e.g., turnstile
47 ..Drop-arm type
48 **WITH SECTION FOR HAND SIGNALLING**
49 **WITH TRAFFIC DIRECTOR OR CONTROLLER; E.G., ONE-WAY**
50 **WITH PROTECTIVE GRILLE OR SAFETY GUARD**
51 .Facing interconnected movable louvers
52 .Closure operator extends through grille
53 ..Swinging handle actuator
54 .Carried by closure to vacated opening
55 .Adjustable to various size opening
56 .Moves relative to primary closure
57 .Removable
58 **WITH ANIMAL BLOCKER REPELLER OR CHASER**
59 .Electrically charged
60 .Actuated by closure movement
61 **FACIALLY OPPOSED PRIMARY AND AUXILIARY CLOSURE FOR COMMON OPENING**
62 .Auxiliary movable or removably mounted on primary
63 .Auxiliary mounted for movement
64 ..Of interconnected movable louvers

65 ..Connected for movement with primary
66 ...Sliding primary imparts swinging movement
67 ..Pivoted
68 **SEQUENTIAL CLOSURES FOR PASSAGEWAY**
69 **MAIN CLOSURE ACTUATES SUPPLEMENTAL CLOSURE FOR TRACKWAY**
70 **COMBINED**
71 **WITH SIDE PANELS; E.G., AWNING**
72 **WINDOW POSITION OR MOVEMENT INTERRELATED WITH DOOR LATCH**
73.1 **CLOSURES INTERCONNECTED FOR CONCURRENT MOVEMENT**
74.1 .Louver-type closures (e.g., slats or panels)
77.1 ..Distinct groups of louver-type closures
79.1 ..Manipulation of control louver panel connects or disconnects remaining louver panels
80.1 ..Louver panels move sequentially or independently
81.1 ..Multidirectional louver panel movement
82.1 ..Geared, interconnector or operator
86.1 ..Cable, interconnector or operator
87.1 ..Operating system includes a handle
89.1 ..Operating system includes biasing means
90.1 ..With position holder for operating system
91.1 ..With weather seal feature
92.1 ..Specific louver structure
93 .Closures on opposite approaches to crossing
94 .Closures on opposite or angularly related barriers
95 .Closures in spaced openings along barrier
96 ..Levers acting between interconnector and closures
97 ...Rock shaft interconnector
98 .One closure with complete independent movement
99 ..Counterbalancing closures with adjustable or detachable cable interconnector
100 .Moves at different speeds
101 ..Lever interconnected
102 ..Cable interconnected
103 .Sequential movement
104 .Closures mounted for swinging
105 ..Treadle or treadle bar interconnector
106 ...Common interconnector actuated from opposite approaches
107 ..Geared, interconnector or interconnector operator
108 ...Drives lever pivoted on closure
109 ..Link or link system interconnected
110 ...With operator or energy stored opening means
111 ....Allochiral link system from closures to input connection
112 .....Input acts at pivot of diverging links
113 ......Links sliding carriage mounted
114 ....Actuating force applied through one closure to other closure
115 ..Cable interconnector sheaved on closure pivots
116 .Opposed similar movement
117 ..With actuator on opposite approaches
118 ..Motor driven
119 ..Counterbalance effect derived from opposed closure
120 ...Bipartite, center-opening type; e.g., elevator door
121 ...Cable interconnected
122 ..Lever interconnected
123 ..Cable interconnected
124 **EXTENSIBLE BAR SECTIONS**
125 **MOUNTED FOR MOVEMENT TO FACIALLY STACKED POSITION**
126 .From vertical to horizontal overhead stacked position
127 .From collinear to stacked position
128 **COLLINEAR CLOSURES, ONE MOVES TO OFFSET POSITION**
129 .Moved closure has additional movement
130 .Horizontal sliding
131 **CLOSURE SURFACE MOVED TO INOPERATIVE POSITION FLUSH-WITH-GROUND**

192 .On alternative axes
193 ..On opposite ends of closure
194 .Movable or removable guide
195 ..Pivoted
196 ...Closure swings with guide
197 **UP-AND-OVER TYPE; E.G., MOVES FROM VERTICAL TO WITHDRAWN HORIZONTAL OVERHEAD POSITION**
198 .Independently movable closure sections
199 .With operator
200 ..And counterbalance
201 .Upward sliding followed by distinct swinging
202 ..Pivoted guide
203 .On lever or link
204 ..Pivoted at closure
205 ...Multiple links angularly related
206 ...Actuating spring codirectional with or acts on links
207 **SUPERIMPOSED CLOSURES, INDEPENDENT EDGEWISE MOVEMENT TO SIDE OF OPENING**
208 **MOUNTED FOR MULTIDIRECTIONAL OR OBLIQUE MOVEMENT**
209 .Initial or terminal movement transverse to sliding movement edgewise of portal
210 ..Common operator for both movements
211 ..Transverse movement aligns closure for movement into housing
212 ..Transversely movable track
213 ..Skewed track
214 ...Separate track section for rear of closure
215 ...Rear of closure moves transversly on crank arm
216 ..Moves transversely on link
217 ...Closure pivoted to tilting link-carriage
218 ...Crank arm-type link
219 ....Paired sets of crank arms
220 .....Operator interconnected with sets
221 ..Closure carried by track-mounted carriage
222 ...Tiltable carriage
223 ...Closure hinged to carriage
224 ...Inclined transverse movement
225 ...Terminal cam
226 .In plane of closure; e.g., oblique
227 ..Permits movement from housing to raised closed position
228 ..Gravitates on tilted track
229 ...Oscillating track
230 ....Sectional or nonlinear
231 ...Pendant closure
232 ..Swings on coplanar pivotal link arm
233 ...Longitudinal-spaced parallel links
234 ..Closure actuated vertically to retard horizontal travel
235 ...By track roller-closure displacement
236 .One direction imparts gravitational bias to swinging closure; e.g., rising hinge
237 ..Biased by inclined cam and descending slide or roller
238 ...Shiftable cam
239 ...Mating inclined cam and slide surfaces
240 ..Shiftable pivot
241 ...On crank arm
242 ...Mounted on eccentric or lever
243 ....Pivot on hinge post cap lever
244 ....Pivot on vertically oscillating lever
245 ...Pivot pin shifted in slot
246 .Swings on plural axes; e.g., pivotal link arms
247 ..Axes normal to each other
248 ..Multiple links angularly related
249 ...One link jointed
250 ..With additional slide guiding closure movement
251 ...Friction slide mount; e.g., biased
252 ...Guide on portal frame
253 ..Link at closure balance point
254 .Sequential translation and swinging
255 ..Operated vertically to permit horizontal swinging
256 ...Camming lever
257 ..Translation shifts pivot axis
258 ..Translates on pivoted axis
259 ...Supporting frame extends laterally of its pivot
260 .Pivot axis moves along guide
261 .Swings about seat on portal frame; e.g., indeterminate axis

262 **VEHICLE ACTUATED ROLLER OR CARRIAGE OR CARRIED COOPERANT**
263 **TREADLE OR IMPACT INITIATED OPERATOR**
264 .Switch in approach to closure
265 .Fluid controller in approach to closure
266 .With alternative hand operator
267 .Two-stage operator
268 .Sequential initiators for latch release and operator
269 .Spaced open and close initiators on opposite sides of closure
270 ..Plural interconnected paired initiators
271 ..Releases latch from either side
272 .Releases latch
273 .Load maintained, self-returning
274 ..Spring return
275 **CLOSURE MOVED BY STEP-BY-STEP OPERATOR**
276 **STARTER-TYPE OPERATOR; E.G., SEAL BREAKER**
277 .Lever actuator engages strap-fastener or longitudinally shiftable bar
278 .Handle-camming lever
279 **OPERATOR INTERRELATED WITH CLOSURE LATCH RELEASE**
280 .Motor driven
281 .Common actuator, different movements to unlatch and move closure
282 .Actuator or opposite approaches
283 ..Latch for diverse positions of closure, separate trains
284 ..Latch train and closure operator train from diverse points on actuator
285 ..Lever interconnector, separate trains to latch and closure mover
286 ..Force applied at closure pivot releases latch
287 ...Geared
288 ...Sheaved
289 ..Closure or latch interposed in endless or looped cable
290 ..Lost motion branched cable
291 ..Lost motion pin or lever and slot
292 ..Lost motion cam drive
293 ..Closure moving force applied through latch releaser
294 ...Duplicate links release common latch
295 ...Crank link-type interconnector
296 ...Bell crank-type interconnector
297 ...Latch train includes closure mounted cable guide
298 ...Link system interconnector
299 ...Allochiral actuators to common latch release
300 .Common input, diverse trains to latch and closure mover
301 .One direction pull cable-type
302 .Actuator at remote station
303 **CLOSURE MOVEMENT ACTUATED RETRACTABLE SEALING, GUIDING OR LOCKING STRIP**
304 .Strip mounted on sill
305 ..Interengages strip on closure
306 .Strip movement in plane of closure
307 ..Horizontally reciprocating plunger actuator
308 ...Lever interconnects or cams strip
309 ..Oblique movement
310 .Resilient means swings strip to retracted position
311 ..Offset or lever actuator, axis parallel to strip axis
312 ...Spring coaxial or strip axis
313 ..Deflector in path of strip
314 ...Jamb mounted
315 .Weight or gravity biased to retracted position
316 **OPERATOR FOR RETRACTABLE SEALING, GUIDING OR LOCKING STRIP**
317 .Opposed strips actuated concurrently
318 ..With interconnected strip on adjacent side
319 .Interrelated with closure latch
320 .Rotating shaft normal to plane or strip movement
321 .Includes lever
322 **WITH SAFETY BRAKE OR CATCH**
323 **CLOSURE GUIDED FROM HOUSING BY RETRACTABLE SUPPORT**
324 **WITH OPERATOR FOR MOVABLY MOUNTED CLOSURE**
325 .Reversibly flexible and rigid rod
326 .Moves closure in either direction from closed position
327 .Actuated from opposite approaches

328 ..By vertically oscillating lever
329 ...Link system connects lever to closure
330 ....Actuating force applied between link pivots; e.g., over center toggle-type
331 ..Pull cable, lever interconnector
332 ..Cable with pulley or drum
333 .Coaxial of closure pivot
334 ..Motor driven
335 ..Coaxial gear
336 ...Rack drive
337 ...Worm drive
338 ..Link drives coaxial connector
339 .Operating lever or link and closure swing about parallel axes
340 ..Motor-driven lever
341 ..Gear-driven lever
342 ...Toothed lever end engages gear
343 ...Lever carries screw gearing component
344 ..Reciprocating rod drives lever
345 ..Multiple links
346 ..Lever end slide engages guide on closure
347 .One direction pull cable
348 .Drive within closure housing
349 ..Motor driven
350 ..Gear-driven lever moves within limits of housing
351 ...Multiple levers
352 ..Cable drive
353 ..Exposed handle drives concealed lever
354 .Through wall type
355 ..With weather seal or flap for drive element
356 .Push-rod actuator
357 .Remote actuating or initiating station
358 .Closure-mounted drive
359 ..Lever-actuated drive
360 .Operator drives closure along guide
361 ..Common input for drives adjacent opposed guides
362 ..Rack or screw parallel to closure guide
363 ..Lever
364 **BUMP ACTUATED LATCH RELEASE FOR BIASED CLOSURE**
365 **CLOSURE MOUNT OR STOP ON INDEPENDENT MOVABLE OR REMOVABLE CENTER POST**
366 **BIPARTITE, CENTER OPENING**
367 .Overlapping meeting edges
368 ..With disparate seal
369 ..Z-bar-type edge
370 .Sliding closures
371 **SWINGING CLOSURES CLOSING SINGLE OPENING**
372 **STORED IN HOUSING**
373 .With cover or lid for housing opening
374 .Reciprocates vertically in and out of housing
375 ..Vertical extension on closure bottom edge guided with housing
376 ..Inclined guide on side edge of portal opening
377 ..With cushioning means adjacent housing opening
378 ..One-piece housing facing and portal frame contains guide
379 **LATCH RELEASE OF MOVEMENT-STORED ENERGY**
380 **MOVABLE CLOSURE AND ITS SUPPORT TRANSFERABLE AS UNIT**
381 **WITH MEANS MOUNTING CLOSURE FOR SWINGING**
382 .Hinging position reversal means
383 .Hinge edge, finger guard, lock or disparate seal
384 ..Cylinder and sleeve-type
385 .Transverse pivot; e.g., single pivoted corner
386 .With biasing means
387 ..Distinct weight
388 .Pivots on opposed portal members
389 ..Closure removable in inclined position
390 ..Closure portions on opposite sides of portal in open position
391 ...Inclined opposed member; e.g., vent window-type
392 ...Diagonally opposed stops or seals
393 ....On pivot carrying portal members
394 .With latch or lock
395 ..Plural; e.g., gang
396 .Compensator for front end weight; e.g., sag preventer

397 .Unitary structural member and hinge element
398 .Concealed hinge
399 .Hinge leaf mounted on closure edge surface
400 .Closure nests within portal frame
401 ..Marginal closure flange overlaps portal frame
402 .Closure overlies portal frame
403 .Louver end caps; e.g., mounting clips
404 **WITH MEANS MOUNTING CLOSURE FOR RECIPROCATION**
405 .By link mount
406 .With plug, flap, or bridger for meeting rail
407 .Guide mounted stop spaces closure from sill
408 .Drain or vent in guide or sash
409 .Pendant from horizontal guide
410 ..With guide for lower edge of closure
411 ...Threshold or sill guide
412 ..Overlapping angles shield track-closure crevice
413 .Horizontally sliding sashless-type
414 .With distinct biasing means for slide or guide
415 ..Acting transversely of closure face
416 ...Biased side guide or parting strip
417 ..With means to adjust or retract biaser
418 ...Adjusting screw coaxial of coil spring
419 ..Nonmetallic biaser
420 ..Ball or roller bearing
421 ..Closure carried
422 ..Biaser permits self-adjustment of single guide for plural closures
423 ..Slide or guide with transverse restrainer
424 .Baffle plate guided in chamber slot
425 .Revolving guide component; e.g., roller or gear
426 ..Offset from plane of portal; e.g., freight car door
427 ..On support edgewise of passage
428 .Diverse or springy material guide or slide
429 ..Cooperates with counterbalance hardware
430 ...Counterbalance within jamb-guide gap
431 ..Interengaging sections on portal and closure
432 ...On parting strip and adjacent closures
433 ...Plural interdigitants
434 ..Single guide or slide for facially adjacent closures
435 ...Parting strip with integral, opposite wings
436 ..Bearing includes transverse restrainer
437 ...Closure mounted
438 ....On closure edge
439 .....Cap-type
440 ...Channel guide
441 ....Converging sides or ends
442 ...Guide engages slot in closure
443 ....On closure face
444 ....Portion engages edge surface
445 .With counterbalance
446 ..Connected to slide mount of removable closure
447 ..Guide-concealed weight pocket
448 ...Displaceable guide section permits access to weight pocket
449 .With latch or lock
450 ..Plural open positions
451 ...Friction holder
452 .With means to adjust guide position
453 .Slide or guide feature for closure removal
454 ..Detachable or displaceable stile or slide strip
455 ..Guide mounted for repeated movement
456 ..Removable guide
457 ...Interfitted retainers, guide, and frame
458 .Interengaging meeting rails
459 .Guide includes deformed or cast component
460 **HANDLE OR PROTECTOR**
461 .Receptor for pole handle
462 .Edge protector
463 **REMOVABLE CLOSURE**
464 .With separable closure sections
465 .Releasable means on closure

466 .Displaceable sealing or binding strip
467 **THRESHOLD**
468 .Adjustable
469 .With diverse seal
470 ..Closure carried
471 .With drain or vent
472 **COMBINED SEAL, STOP AND STIFFENER; I.E., CLEAT**
473 .With additional seal
474 .Eddy current or airspace trap
475.1 **CLOSURE SEAL; E.G., STRIKER GASKET OR WEATHERSTRIP**
476.1 .With fluid drain, or closure face mounted deflector; e.g., sill seal
477.1 .Inflatable or fluid pressure responsive
478.1 .Magnetic
479.1 .With corner or corner forming portions; i.e., corner seal
480.1 .With distinct biasing means
482.1 .With feature for segmenting, replacing, adjusting, or severing
483.1 .Having complementary engaging portions on closure or closure and portal frame
484.1 .Plural distinct seals
489.1 .Anchored in channel or slot in closure or portal frame
490.1 .U-shaped member or portion mounts seal
492.1 .Held by snap fastener
493.1 .With holder; e.g., securing sheath
495.1 .Plural sealing contact points
496.1 .Spaced or superposed flange cantilevered from edge of base portion; e.g., leaf-spring type
498.1 .Tubular or tubular portion
499.1 .Bulged sealing surface intermediate securing ends
500.1 .Windlace-type
501 **PANEL WITH CLOSURE FEATURE**
502 .With means to accommodate window accessory; e.g., automobile-type door
503 .Modified to accommodate lock or latch
504 **FRAME WITH CLOSURE FEATURE**
505 .Adjustable frame
506 **PROCESSES**
507 **MISCELLANEOUS**

FOREIGN ART COLLECTIONS

FOR **CLASS-RELATED FOREIGN DOCUMENTS**

DIGESTS

DIG 1 **THERMAL BREAKS FOR FRAMES**
DIG 2 **PLASTIC FRAME COMPONENTS**